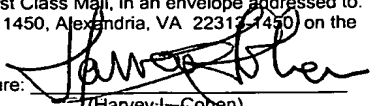


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(Harvey L. Cohen)

Docket No.: SCHERING 3.0-120  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Saksena et al.

Application No.: 09/909,062

Group Art Unit: 1654

Filed: July 19, 2001

Examiner: M. Audet

For: NOVEL PEPTIDES AS NS3-SERINE  
PROTEASE INHIBITORS OF HEPATITIS C  
VIRUS

Commissioner for Patents  
P.O. Box 1450  
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Dear Sir:

It is respectfully requested that the references cited in the enclosed form be considered pursuant to 37 C.F.R. § 1.97(c). Please charge deposit account No. 12-1095 in the amount of \$180.00 pursuant to 37 C.F.R. § 1.17(p). In the event that any additional fee is due in connection with the present request, the same should be charged to our deposit account No. 12-1095.

Dated: November 10, 2003

Respectfully submitted,

By 

Harvey L. Cohen

Registration No.: 28,365

LERNER, DAVID, LITTENBERG,  
KRUMHOLZ & MENTLIK, LLP

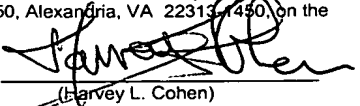
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LD-453\

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**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

It is respectfully requested that the references listed on the enclosed form be made of record and considered with respect to the above-referenced U.S. patent application. A copy of each reference is enclosed. Submission of the present Information Disclosure Statement should not be taken as an admission that the cited references are legally available prior art or that the same are pertinent or material.

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Dated: November 10, 2003

Respectfully submitted

By 

Harvey L. Cohen

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				Art Unit	1654
				Examiner Name	M. Audet
				Attorney Docket Number	SCHERING 3.0-120
Sheet	1	of	3		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	AA	US-5,162,500	11-10-1992	Takeuchi et al.	
	AB	US-5,359,138	10-25-1994	Takeuchi et al.	
	AC	US-5,496,927	03-05-1996	Kolb et al.	
	AD	US-5,633,388	05-27-1997	Diana et al.	
	AE	US-5,739,002	04-14-1998	De Francesco et al.	
	AF	US-5,763,576	06-09-1998	Powers	
	AG	US-5,843,450	12-01-1998	Dawson et al.	
	AH	US-5,843,752	12-01-1998	Dasmahapatra et al.	
	AI	US-5,849,866	12-15-1998	Kolb et al.	
	AJ	US-5,854,001	12-29-1998	Casey et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	BA	EP-0 423 358-A1	04-24-1991	Naganawa et al.		
	BB	EP-0 672 648-A1	09-20-1995	Naganawa et al.		
	BC	EP-0 672 648-B1	09-20-1995	Naganawa et al.		
	BD	WO-02/18369-A2	03-07-2002	Babine et al.		
	BE	WO-92/11850	07-23-1992	Simpson et al.		
	BF	WO-94/00095	01-06-1994	Eveleth et al.		
	BG	WO-95/33764	12-14-1995	Charbonneau		
	BH	WO-97/06804	02-27-1997	McDade		
	BI	WO-98/12308	03-26-1998	De Francesco et al.		
	BJ	WO-98/14181	04-09-1998	Chojkier et al.		
	BK	WO-98/29435	07-09-1998	Baily et al.		
	BL	WO-98/37180	08-27-1998	Chen et al.		
	BM	WO-99/07733	02-18-1999	Llinas-Brunet et al.		
	BN	WO-98/13462	04-02-1998	McInver et al.		
	BO	WO-00/05245	02-03-2000	Brunck et al.		

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NON PATENT LITERATURE DOCUMENTS			
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	CA	BARTENSCHLAGER et al., Substrate Determinants for Cleavage in cis and in trans by the Hepatitis C Virus NS3 Proteinase, Journal of Virology, Jan. 1995, Vol. 69, No. 1, pp. 198-205	
	CB	BIANCHI et al., Synthetic Dipeptide Substrates for the Assay of Human Hepatitis C Virus Protease, Analytical Biochemistry 237, 239-244 (1996)	

Examiner Signature		Date Considered	
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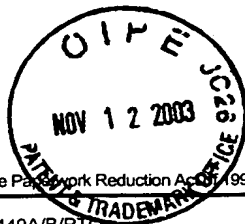
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				Examiner Name	M. Audet
Sheet	2	of	3	Attorney Docket Number	SCHERING 3.0-120

CC	BOUFFARD et al., An in Vitro Assay for Hepatitis C Virus NS3 Serine Proteinase, Virology 209, 52-59 (1995)
CD	CHO et al., Construction of hepatitis C-SIN virus recombinants with replicative dependency on hepatitis C virus serine protease activity, Journal of Virological Methods 65 (1997), 201-207
CE	D'SOUZA et al., In vitro cleavage of hepatitis C virus polyprotein substrates by purified recombinant NS3 protease, Journal of General Virology (1995), 76, 1729-1736
CF	FILOCAMO et al., Chimeric Sindbis Viruses Dependent on the NS3 Protease of Hepatitis C Virus, Journal of Virology, Feb. 1997, p. 1417-1427
CG	HAHM et al., Generation of a Novel Poliovirus with a Requirement of Hepatitis C Virus Protease NS3 Activity, Virology 226, 318-326 (1996)
CH	HAMATAKE et al., Establishment of an in vitro Assay to Characterize Hepatitis C Virus NS3-4A Protease Trans-Processing Activity, Intervirology 1996;39:249-258
CI	HARBESON et al., Stereospecific Synthesis of Peptidyl a-Keto Amides as Inhibitors of Calpain, J. Med. Chem. 1994, 37, 2918-2929
CJ	ITO et al., Cultivation of hepatitis C virus in primary hepatocyte culture from patients with chronic hepatitis C results in release of high titre infectious virus, J. Gen. Virol 1996 May; 77 (Pt 5):1043-54
CK	LU et al., Poliovirus chimeras replicating under the translational control of genetic elements of hepatitis C virus reveal unusual properties of the internal ribosomal entry site of hepatitis C virus, Proc. Natl. Acad. Sci. USA, Vol. 93, pp. 1412-1417, February 1996
CL	MIZUTANI et al., Characterization of Hepatitis C Virus Replication in Cloned Cells Obtained from a Human T-Cell Leukemia Virus Type 1-Infected Cell Line, MT-2, Journal of Virology, Oct. 1996, p. 7219-7223
CM	MIZUTANI et al., Inhibition of Hepatitis C Virus Replication by Antisense Oligonucleotide in Culture Cells, Biochemical and Biophysical Research Communications, Vol. 212, No. 3, 1995, pp. 906-911
CN	MIZUTANI et al., Long-Term Human T-Cell Culture System Supporting Hepatitis C Virus Replication, Biochemical and Biophysical Research Communications 227, 822-826 (1996)
CO	OGILVIE et al., Peptidomimetic Inhibitors of the Human Cytomegalovirus Protease, J. Med. Chem. 1997, 40, 4113-4135
CP	SCARSELLI et al., GB Virus B and Hepatitis C Virus NS3 Serine Proteases Share Substrate Specificity, Journal of Virology, July 1997, p. 4985-4989
CQ	SCHECHTER et al., On the Size of the Active Site in Proteases, Biochemical and Biophysical Research Communications, Vol. 27, No. 2, 1967
CR	SHIMIZU et al., Multicycle Infection of Hepatitis C Virus in Cell Culture and Inhibition by Alpha and Beta Interferons, Journal of Virology, Dec. 1994, p. 8406-8408
CS	STEINKUHLER et al., Product Inhibition of the Hepatitis C Virus NS3 Protease, Biochemistry 1998, Vol. 37, pp. 8899-8905
CT	SUDO et al., Establishment of an in vitro assay system for screening hepatitis C virus protease inhibitors using high performance liquid chromatography, Antiviral Research 32 (1996), pp. 9-18
CU	TAKESHITA et al., An Enzyme-Linked Immunosorbent Assay for Detecting Proteolytic Activity of Hepatitis C Virus Proteinase, Analytical Biochemistry (1997), 274, pp. 242-246
CV	TALIANI et al., A Continuous Assay of Hepatitis C Virus Protease Based on Resonance Energy Transfer Dipeptide Substrates, Analytical Biochemistry 240 (1996), pp. 60-67
CW	TAREMI et al., Construction, expression, and characterization of a novel fully activated recombinant single-chain hepatitis C virus protease, Protein Science (1998), 7:2143-2149
CX	TONG et al., Conserved mode of peptidomimetic inhibition and substrate recognition of human cytomegalovirus protease, Nature Structural Biology (1998), Vol 5., No. 9, pp. 819-826
CY	TSUDA et al., Poststatin, a New Inhibitor of Prolyl Endopeptidase, The Journal of Antibiotics (1996), Vol. 49, No. 3, pp. 287-291

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	CZ	TSUDA et al., Poststatin, a New Inhibitor of Prolyl Endopeptidase, The Journal of Antibiotics (1996), Vol. 49, No. 9, pp. 890-899	
	CA1	URBANI et al., Substrate Specificity of the Hepatitis C Virus Serine Protease NS3, Journal of Biological Chemistry (1997), April 4 Issue, pp. 9204-9209	
	CB1	WANG et al., Expression of HCV NS3 Protease and Detection of Its Activity in Mammalian Cells, 4th International Meeting on Hepatitis C Virus and Related Viruses, Molecular Virology and Pathogenesis, March 6-10, 1997	
	CC1	WASSERMAN et al., (Cyanomethylene) phosphoranes as Novel Carbonyl 1,1-Dipole Synthons: An Efficient Synthesis of $\alpha$ -Keto, Acids, Esters, and Amides, J. Org. Chem. (1994), Vol. 59, pp. 4364-4366	
	CD1	ZHANG et al., Probing the Substrate Specificity of Hepatitis C Virus NS3 Serine Protease by Using Synthetic Peptides, Journal of Virology, Aug. 1997, pp. 6208-6213	

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